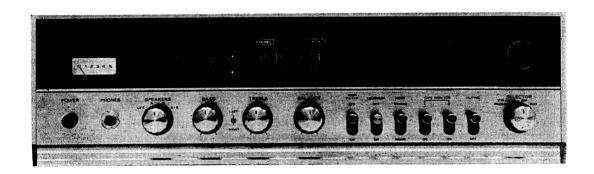
SERVICE MANUAL

SOLID-STATE AM/FM STEREO TUNER AMPLIFIER

SANSUI 1000X

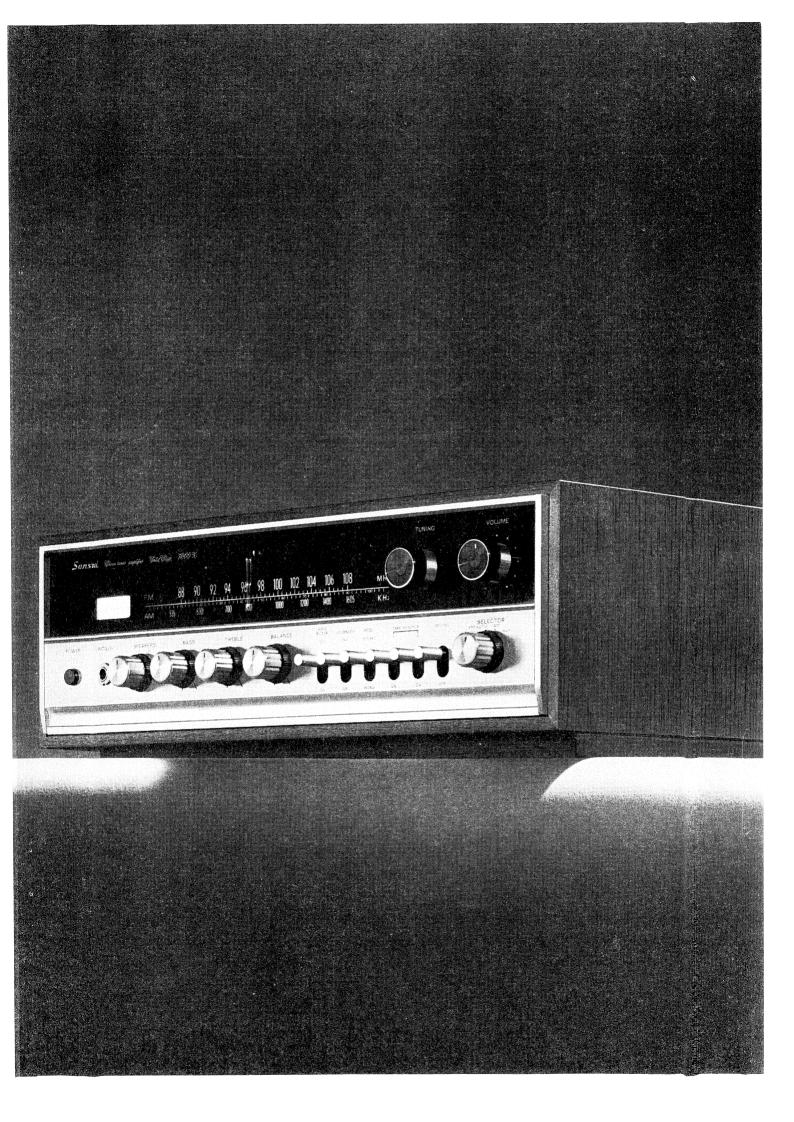


Sansui

SANSUI ELECTRIC CO., LTD.

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GENERAL TROUBLESHOOTING CHART

If the amplifier is otherwise operating satisfactorily, the more common causes of trouble may generally be attributed to the following:

- 1. Incorrect connections or loose terminal contacts. Check the speakers, record player, tape recorder, antenna and line cord.
- 2. Improper operation. Before operating any audio com-

ponent, be sure to read the manufacturer's instructions.

- 3. Improper location of audio components. The proper positioning of components, such as speakers and turntable, is vital to stereo.
- 4. Defective audio components.

The following are some other common causes of malfunction and what to do about them:

PROGRAM	SYMPTOM	PROBABLE CAUSE	WHAT TO DO
AM,FM or MPX reception	A. Constant or intermittent noise heard at times or in a certain area	* Discharge or oscillation caused by electrical appliances, such as fluorescent lamp, TV set, D.C. motor, rectifier or oscillator * Natural phenomena, such as atmospherics, statics or thunderbolts * Insufficient antenna input due to ferroconcrete wall or long distance from the station * Wave interference from other electrical appliances	* Attach a noise limiter to the electrical appliance causing the noise, or attach it to the amplifier's power source * Install an outdoor antenna and ground the amplifier to raise the signal-to-noise ratio * Reverse the power cord plugreceptacle connections * If the noise occurs at a certain frequency, attach a wave trap to the ANT. input * Keep the set at a proper distance from other electrical appliances
	B. The needle of the tuning meter does not move sharply	* Receiver is located in a weak signal area	* Place the set to receive maximum signal strength
	C. The zero point of the meter diverges much	* Regional difference in field intensity.	* The unit is not at fault
AM reception	A. Noise heard at a particular time of a day, in a certain area or over part of dial	* Due to the nature of AM broadcasts	* Install the antenna for maximum antenna efficiency. See "ANTENNA" in the operating instructions * In some cases, the noise can be eliminated by grounding the amplifier or reversing the power cord plug-receptacle connections
	B. High-frequency noise	* Adjacent-channel interference or beat interference * TV set too close to audio system	* Although such noise cam ot be eliminated by the amplifie, it is advisable to adjust the TREBLE control from midpoint to left and switch on the HIGH FILTER * Keep the TV set at a properdistance from the audio system
FM reception	transmission co antenna efficien	* Poor noise limiter effect or too low S/N ratio due to insufficient antenna input ion is affected considerably by onditions of stations: power and acy. As a result, you may receive the well while receiving another	* Install the antenna (suppled) for maximum signal strength * If this does not prove effective, use an outdoor antenna esigned exclusively for FM. When you use a TV antenna for both TVand FM with a splitter, make sure Ty reception is not affected * An excessively long anten a may cause noise

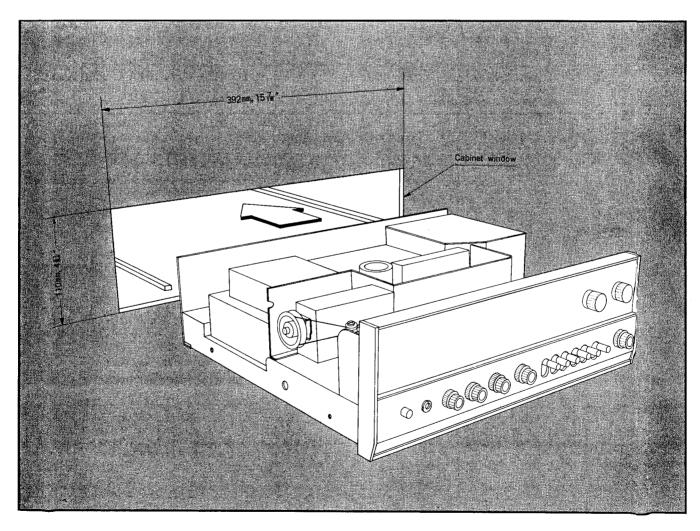
PROGRAM	SYMPTOM	PROBABLE CAUSE	WHAT TO DO
FM reception (cont'd)	B. A series of pops is heard	* Ignition noise caused by an automobile engine	* Install the antenna and its lead-in wire in proper distance from the road or raise the antenna input as described above
	C. Tuning noise between stations	* This results from the nature of the FM reception. As the station signal becomes weak, the noise limiter effect is decreased, and the amplification of the limiter, in turn, is enlarged, generating a noise	* Turn the MUTING switch on. It reduces the sensitivity, and therefore it should be used sparingly
FM-MPX reception	A. Noise heard during FM-MPX reception while not heard during FM mono reception	* Weaker signal because the service area of the FM- MPX broadcast is only half that of the FM mono broad- cast	 * Install the antenna for maximum antenna input * Switch on the HIGH FILTER and/or turn the TREBLE control from midpoint, left
	B. Clearness of channel separation is decreased during reception	* Excess heat	* Circulation of air is important to the amplifier. Be sure that air is flowing under the amplifier
	C. The stereo indicator blinks on and off	* Interference	* The indicator is not at fault. Adjust VR ₄₀₁
	D. The stereo indicator blinks on and off even though stereo station is not received	* Interference	* The indicator is not at fault. Adjust VR ₄₀₁
Record playing or tape playback	A. Hum or howling	* Record player placed directly on speaker * Wire other than shielded wire used * Loose terminal contact * Shielded wire too close to line cord, fluorescent lamp or other electrical appliances	* Place a cushion between the player and the speaker box or place them away from each other * The connecting shielded wire should be as shord as possible * Turn the BASS control from midpoint to left * Consult the authorized SANSU
		* Nearby amateur radio sta- tion or TV transmission antenna	Service Station
	B. Surface noise	 * Worn or old record * Worn stylus * Stylus dusty * Improper stylus pressure * Worn playback head 	* Switch on the HIGH FILTER and turn the TREBLE control from midpoint to left * Clean or replace the stylus * Replace the playback head.
All stereo programs	BALANCE control is not at midpoint when equal sound comes from left and right channels	* It is important to adjust for equal sound from both channels. It should not always be set to the midpoint	* Set the MODE switch to MONO and then set the BALANCE control to a position where equal sound comes from both channels

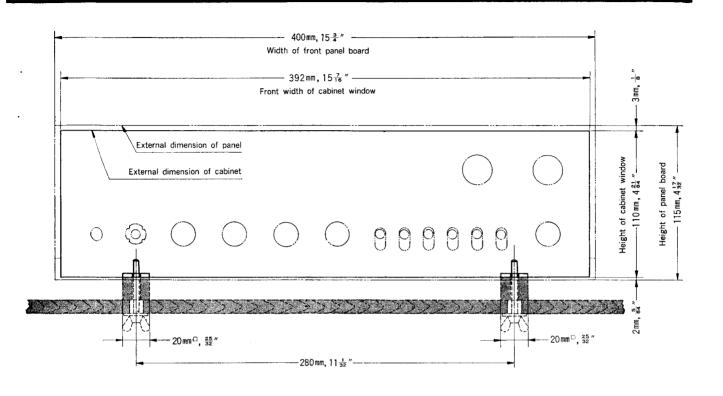
CUSTOM MOUNTING

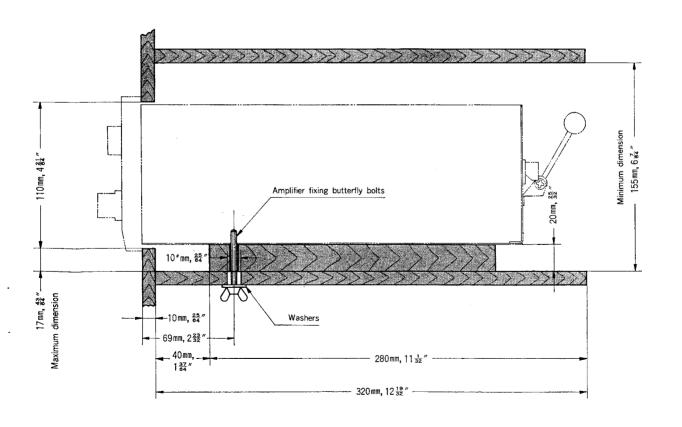
How to Install the Amplifier in a Wooden Cabinet

- **1.** Make a cabinet window of 392mm or $15^7/_{16}$ " in width and 110mm or $4^{21}/_{64}$ " in height.
- **2.** Place two square pieces of wood $(20 \times 20 \times 210 \text{mm} \text{ or } ^{25}/_{32}" \times ^{25}/_{32}" \times 8^{17}/_{64}")$ for supporting the amplifier in the bottom board of the cabinet.
- 3. Cut two holes four attachment bolts in the bottom board of the cabinet.
- **4.** Remove the amplifier from the wood case (Refer to the section entitled "DISASSEMBLY PROCEDURE").
- 5. Place the amplifier in position through the cabinet window.
- **6.** Make sure the amplifier is in position, then put the washers in butterfly bolts $(4 \times 40 \text{mm})$ and fix the amplifier to the cabinet with the butterfly bolts

Note: When the amplifier is built into the custom cabinet, the wood case assembly including screws and washers is not used. Retain it for future use.

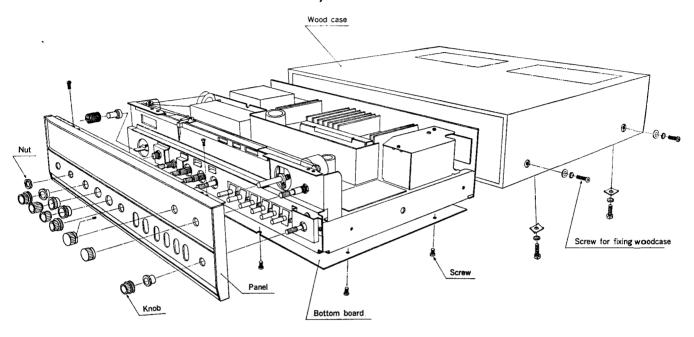




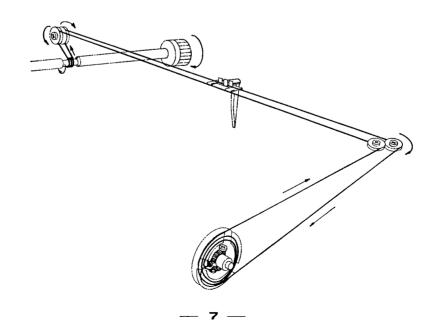


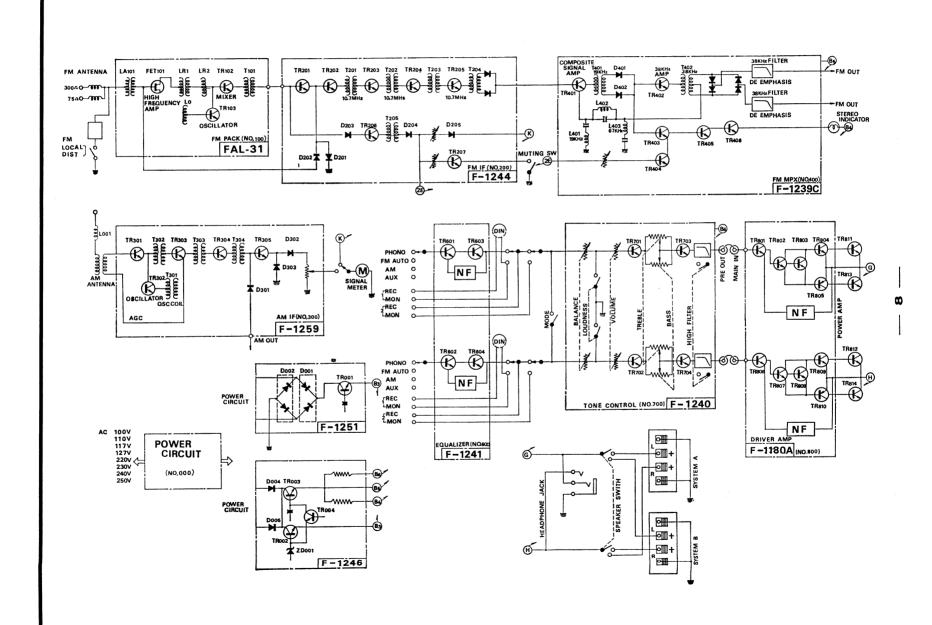
DISASSEMBLY PROCEDURE

REMOVING THE FRONT PANEL, WOOD CASE AND BOTTOM PLATE



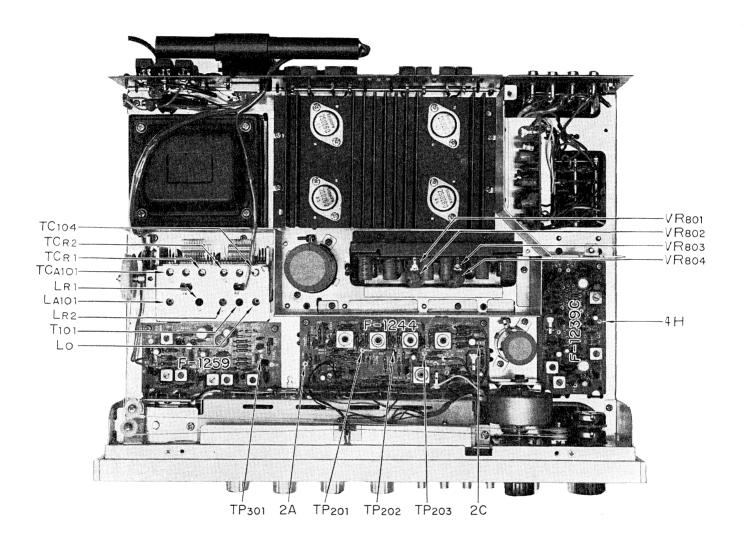
DIAL MECHANISM

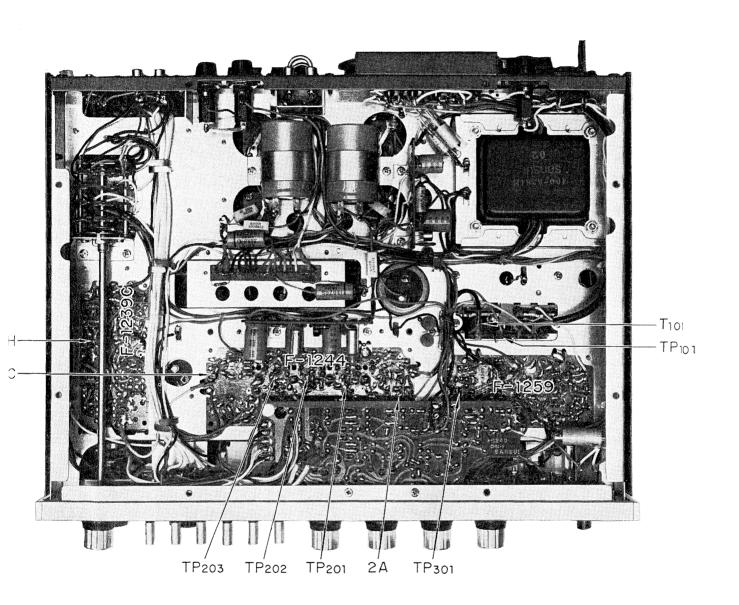




ALIGNMENT

TEST POINTS





ALIGNMENT

FM ALIGNMENT PROCEDURE

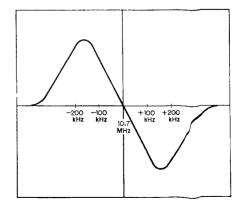
NOTE: To align, set the EM signal generator level to minimum turn tuning gang fully, center carrier wave, and set pointer to reference mark.

STEP	ALIGN	GENERATOR	FEED SIGNAL	OUTPUT INDICATOR	DIAL SETTING	ADJUST	ADJUST FOR
1.	IF Trans- former	10.7 MHz ±200 kHz	Sweep signal is sent to TP ₁₀₁ via the 10pF ceramic capacitor	Oscilloscope is connected to TP ₂₀₁ , TP ₂₀₂ and TP ₂₀₃ via the 0.02µF ceramic capacitor		Primary and secondary sides of T_{201} , T_{202} , and T_{203}	Best I.F. wave form
2.	Discrimin- ator	10.7 MHz ±200 kHz	Sweep signal is sent to 2A via the 0.02 µF ceramic capacitor	Oscilloscope is connected to 2C via the 0.05 µF capacitor		FM Discriminator T ₂₀₄ primary and secondary	S curve
3.	O.S.C	88 MHz 400 Hz 100 % Modulation	To antenna terminals	Oscilloscope and V.T.V.M. at output load	88 MHz	O.S.C. coil	Maximum
4.	O.S.C	108 MHz 400 Hz 100% Modulation	To antenna terminals	Oscilloscope and V.T.V.M. at output load	108 MHz	O.S.C trimmer TC ₁₀₄	Maximum
5.	Repeat 3&4						
6.	RF Amp. Circuit	90 MHz 400 Hz 100% Modulation	To antenna terminals	Oscilloscope and V.T.V.M. at output load	90 MHz	Antenna Coil LA ₁₀₁ , LR ₁ and LR ₂	Maximum
7.	RF Amp. Circuit	106 MHz 400 Hz 100 % Modulation	To antenna terminals	Oscilloscope and V.T.V.M. at output load	106 MHz	Trimmer TCA ₁₀₁ , TC _{R1} and TC _{R2}	Muximum
8.	Repeat 6 & 7						

FM IF CHARACTERISTIC

-200 --100 10.7 +100 +200 KHz KHz MHz KHz KHz

FM DISCRIMINATOR CHARACTERISTIC



FM MUITIPLEX ALIGNMENT PROCEDURE

- . 1. Do not attempt to align the Multiplex Circuit unless the following equipment is available:
 - a. Multiplex Stereo Generator b. Oscilloscope c. AC. V.T.V.M. d. Audio Oscillator e. FM Signal Generator

STEP	ALIGN	GENERATOR	FEED SIGNAL	OUTPUT INDICATOR	ADJUST	ADJUST FOR
1.	19kHz Trap	19 kHz Audio Signal	Connect to 4A	V.T.V.M. at 4G	L ₄₀₁	Minimum
2.	67 kHz Trap	67 kHz Audio Signal	Connect to 4A	V.T.V.M. at 4G	L ₄₀₈	Minimum
3.	19kHz Transformer	FM Signal Gen. Modulated 30% by STEREO Gen. sub-channel	Antenna terminals Tune to signal	V.T.V.M. and Oscilloscope at 4H	T ₄₀₁	Maximum
4.	38 kHz Transformer	FM Signal Gen. Modulated 30% by STEREO Gen.	Antenna terminals Tune to signal	V.T.V.M. and Oscilloscope at 4H	T ₄₀₂	Maximum
5.	38 kHz Transformer and Separation VR	FM Signal Gen. Modulated 30% by STEREO Signal Gen. channel-L	Antenna terminals Tune to signal	V.T.V.M. and Oscilloscope at output load channel-R	T ₄₀₂ within 1/4 turn and Separation VR (VR ₆₀₁)	Channel-R Minimum

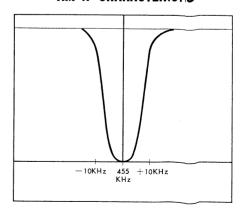
ALIGNMENT

AM ALIGNMENT PROCEDURE

NOTE: To aligh, set AM Signal Generator level to minimum.

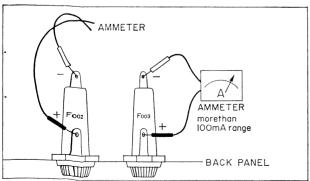
STEP	ALIGN	GENERATOR	FEED SIGNAL	OUTPUT INDICATOR	DIAL SETTING	ADJUST	ADJUST FOR
1.	I.F. Trasfor- mer	455 kHz ±30 kHz Sweep-generator	Antenna terminals	Oscilloscope and V.T.V.M. is connected to TP ₃₀₁		Primary and secondary sides from the lst I.F.T.(T ₃₀₂ ~T ₃₀₄)	Best I.F. wave form
2.	O.S.C.	AM-generator 600 kHz 400 Hz 30% Modulation	Antenna terminals	Oscilloscope and V.T.V.M. at output load	600 kHz	O.S.C. Coil T ₃₀₁	Maximum
3.	O.S.C.	AM-generator 1400 kHz 400 Hz 30% Modulation	Antenna terminals	Oscilloscope and V.T.V.M at output load	1400kHz	O.S.C. Trimmer TC ₈₀₂	Maximum
4.	Repeat 2 and 3						
5.	Antenna circuit	AM-generator 600 kHz 400 Hz 30% Modulation	Antenna terminals	Oscilloscope and V.T.V.M. at output load	600 kHz	Ferrite bar Antenna coil T ₀₀₂	Maximum
6.	Antenna circuit	AM-generator 1400 kHz 400 Hz 30% Modulation	Antenna terminals	Oscilloscope and V.T.V.M. at output load	1400kHz	Antenna circuit Trimmer TC ₈₀₁	Maximum
7.	Repeat 5 and 6						

AM IF CHARACTERISTIC



1. CURRENT ADJUSTMENT

STEP	SETTING OF AMMETER (TESTER)	WAHT TO DO	NOTE
. 1.		Remove F_{002} and F_{003} .	
2.		Set VR_{802} and VR_{804} to minimum.	meter having 100 or 50mA range.
٥.		Set VR_{703} and VR_{704} (VOLUME) to minimum.	
4.		Push the POWER switch ON.	Be sure to switch on lst
5.	100mA range.	Connect the ammeter to F_{002} as illustrated in Fig. 1.	and then con- nect the am- meter.
6.		Turn VR ₈₀₂ clock-wise and adjust current to 15mA.	
7.	100mA range.	Push the POWER switch OFF and attach F ₀₀₂ in place.	
8.		Push the POWER switch ON and connect the ammeter to F_{008} as illustrated in Fig. 1.	
9.		Turn VR ₈₀₄ clock- wise and adjust cur- rent to 15	
10.		Attach F ₀₀₃ in place.	

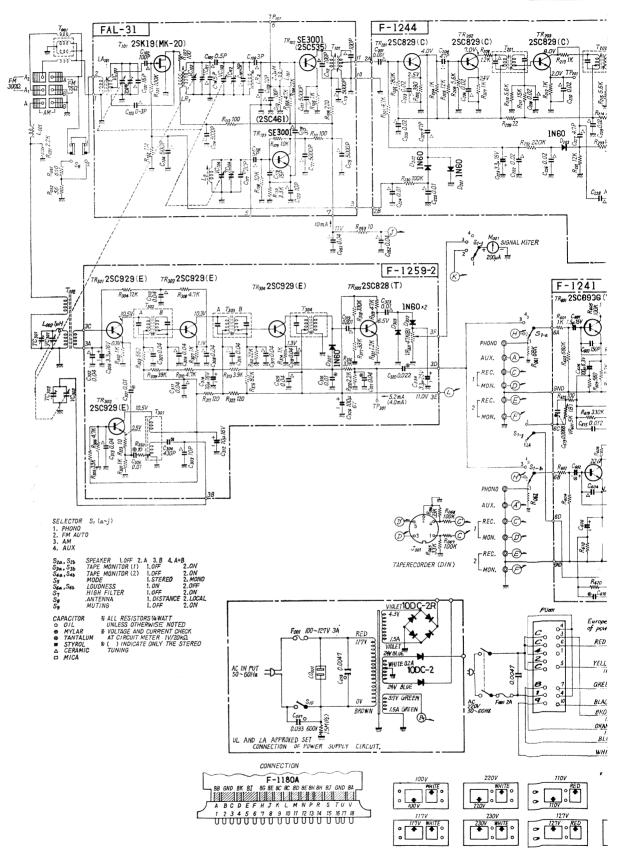


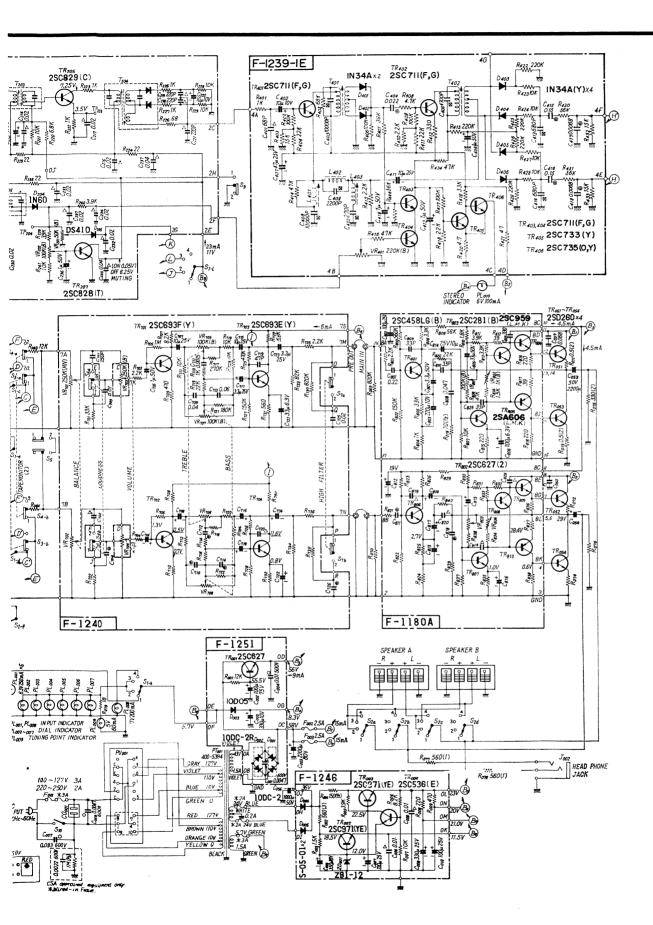
QUICK ACTING FUSE HOLDER

2. OUTPUT ADJUSTMENT

STEP	WHAT TO DO	NOTE
1.	Adjust the volume control to minimum.	
2.	Set an oscillator to 1,000Hz and connect it to the LEFT AUX input.	The oscillator used should have the oscillation frequency of 20 to 20,000Hz and the output voltage of more than 200mV.
3.	Set the SELECTOR switch to AUX.	Set other controls and switches as follows:
		BALANCE to CENTER TAPE MON to OFF MODE to STEREO TONE to CENTER Others to OFF
4.	Connect an 8- or 16- ohm load resistor hav- ing capacitor of more than 50 watts to the LEFT SPEAKER output.	
5.	Connect an osscillo- scope to the SPEAK- ER terminal.	
6.	Push the POWER switch on and advance the volume little by little. Check the output at the terminal by means of the oscilloscope.	
7.	Adjust VR ₈₀₁ so that the fronts of sine wave are clipped simultaneously	
8.	Adjust the right channel as above. In Step 7, adjust VR ₈₀₃ .	V

SCHEMATIC DIAGRAM



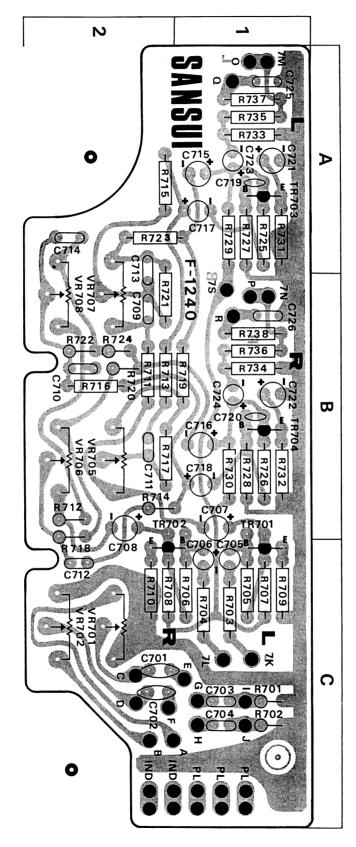


X: Parts No. Y: Parts Name Z: Position of Parts

TONE CONTROL BLOCK (F-1240)

X	Y	Z
R701	33kΩ ₎	10
R702	33kΩ	10
R703	2.2kΩ	10
R 704	2.2kΩ	10
R705	1ΜΩ	10
R706	1ΜΩ	10
R707	8.2kΩ	1 C
R 708	8.2kΩ	2 C
R709	470Ω	10
R710	470Ω	2 C
R711	10kΩ	2 B
R712	10kΩ	2 B
R 713	lkΩ	2 B
R714	lkΩ	2 B
R715	22kΩ	2 A
R 716	22kΩ	2 B
R 71 7	270kΩ	2 B
R718	270kΩ	2 B , C
R 719	$10k\Omega$ $\pm 10\%$ $\frac{1}{4}$ W Carbon Resistor	1 B
R720	10kΩ	2 B
R721	180kΩ	2 A , B
R722	180kΩ	2 B
R723	10kΩ	1, 2 A
R724	10kΩ	2 B
R725	470kΩ	1 A
R726	470kΩ	1 B
R727	150kΩ	1 A
R728	150kΩ	1 B
R729	5.6kΩ	1 A
R730 R731	5.6kΩ	1 B
R732	560Ω 560Ω	1 A
R732	82kΩ	1 B
R733	82kΩ	1 A
R735	2.2kΩ	1 B
R736	2.2kΩ	1 A 1 B
R737	820kΩ	1 A
R738	820kΩ)	1 B
11,00	0201227	1 6
VR701,702	250k Ω (MN) Balance Control (101040)	2 C
VR705,706	100kΩ(B)×2 Treble Control (102004)	_
VR707,708	$100k\Omega(B) \times 2$ Bass Control (102004)	
	,	
C701	150 pF \ ±10% 50 WV Ceramic	2 C
C702	150 pF Capacitor	2 C
C703	0.01μF (±10% 50 WV Mylar	10
C704	0.01μF) Capacitor	1 C
C705	1μF) 50 WV Electrolytic	1 C
C706	1 μ F $ brace$ Capacitor	1 C
C707	10μF) 25 WV Electrolytic	1 B
C708	10 uF Capacitor	2 B
C709	0.04 uF)	2 B
C710	0.04μF	2 B
C711	$0.0015\mu F$ $\pm 10\%$ 50 WV Mylar	2 B
C712	0.0015μ F Capacitor	2 C
C713	0.06μF	2 A , B
	0.06μF)	2 A

х		Y	Z
C715	10μΕ)		1.4
C716	10μΕ	05 1407 51	1 B
C717	3.3μF	25 WV Electrolytic Capacitor	1 A
C718	3.3 µF	Capaciloi	1 B
C719	47 pF) ± 10%	50 WV Ceramic	1 A
C720	47 pF	Capacitor	1 B
C721	33μF)	6.3 WV Electrolytic	1 A
C722	33 μF }	Capacitor	1 B
C723	3.3μF)	25 WV Electrolytic	1 A
C724	3.3 <i>μ</i> F }	Capacitor	1 B
C725	$0.02 \mu F$) $\pm 10 \%$	50 WV Mylar	1 A
C726	0.02 <i>μ</i> F }	Capacitor	1 B
TR701	2SC693F(Y))	(1 B
TR702	2SC693F(Y)	(030575-1)	1,2C
TR703	2SC693E(Y))	(222575)	1 A
TR704	25C693E(Y)	(030575)	1 B

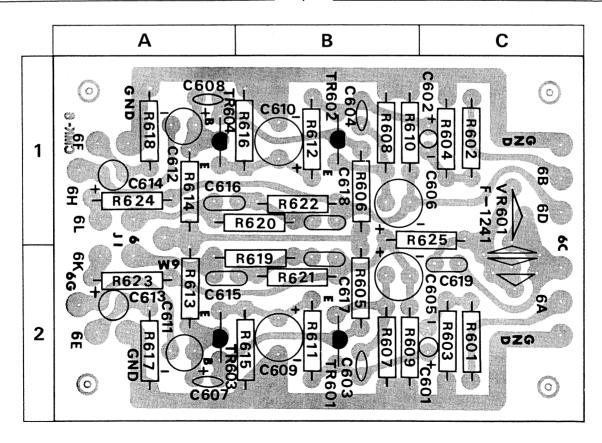


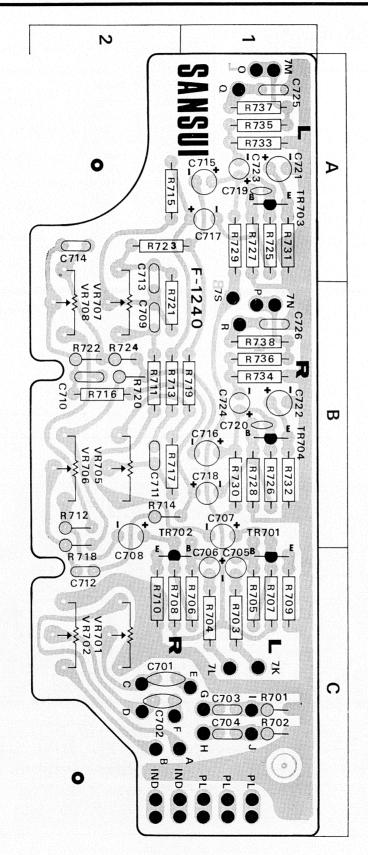
X: Parts No. Y: Parts Name Z: Position of Parts

EQUALIZER AMP BLOCK (F-1241)

X		Y	Z
R601	IkΩ)		2C
R602	lkΩ		10
R603	680kΩ		2C
R604	680kΩ		10
R605	100kΩ		2 B
R606	100kΩ		1 B
R607	2.2kΩ		2 B
R608	2.2kΩ		1 B
R609	560Ω		2 B
R610	560Ω		1 B
R611	390kΩ		2 B
R612	390kΩ		1 B
R613	5.6kΩ	, ±10% ¼W Carbon Resistor	2 A
R614	5.6kΩ		1 A
R615	680Ω		2 B
R616	680Ω		1 B
R617	82kΩ		2 A
R618	82kΩ		1 A
R619	330kΩ		2 A , B
R620	330kΩ		1 A , B
R621	22kΩ		2 B
R622	22kΩ		1 B
R623	15kΩ		2 A
R624	15kΩ		1 A
R625	100Ω		1B,C

X		Υ	Z
VR601	5k Ω (B)	(103037)	1 C
C601 C602 C603 C604 C605 C606 C607 C608	150 pF } 100 μF } 100 μF }	15 WV Tantalume Capacitor 50 WV Ceramic Capacitor 6.3 WV Electrolytic Capacitor 50 WV Ceramic Capacitor 6.3 WV Electrolytic	2 C 1 C 2 B 1 B 2 B, C 1 B, C 2 A 1 A 2 B
C610 C611 C612 C613 C614 C615 C616 C617 C618	47 μF } 10 μF } 10 μF } 0.33 μF } 0.33 μF } 0.012 μF } 0.012 μF	25 WV Alum. Electrolytic Capacitor 25 WV Electrolytic Capacitor 25 WV Electrolytic Capacitor 50 WV Mylar Capacitor	1 B 2 A 1 A 2 A 1 A 2 A, B 1 A, B 2 B 1 B 2 C
TR601 TR602 TR603 TR604	2SC693G(Y) 2SC693G(Y) 2SC693F(Y) 2SC693F(Y)	(030575-2) (030575-1)	2 B 1 B 2 A 1 A



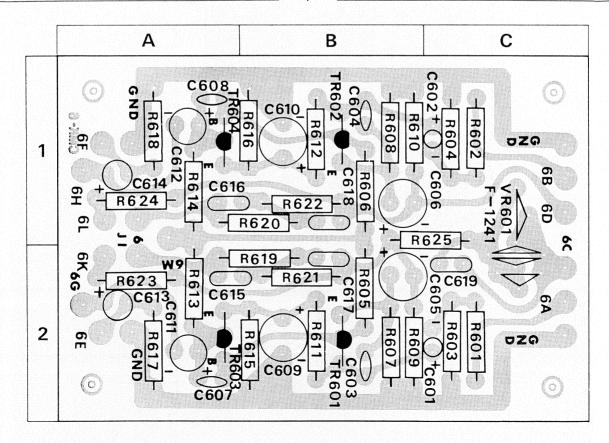


X: Parts No. Y: Parts Name Z: Position of Parts

EQUALIZER AMP BLOCK (F-1241)

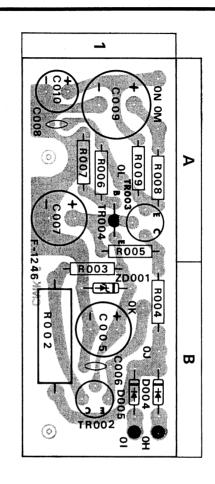
X	Y		Z
R601	lkΩ		2 C
R602	lkΩ		1 C
R603	680kΩ		2 C
R604	680kΩ		1 C
R605	100kΩ		2 B
R606	100kΩ		1 B
R607	2.2kΩ		2 B
R608	2.2kΩ		1 B
R609	560Ω		2 B
R610	560Ω		1 B
R611	390kΩ		2 B
R612	390kΩ		1 B
R613	5.6kΩ	±10% ¼W Carbon Resistor	2 A
R614	5.6kΩ		1 A
R615	680Ω		2 B
R616	ω 080	[캠프를 하고 말라 다시를 작용하는 말씀다.	1 B
R617	82kΩ		2 A
R618	82kΩ		1 A
R619	330kΩ		2 A , B
R620	330kΩ		1 A , B
R621	22kΩ		2 B
R622	22kΩ		1 B
R623	15kΩ		2 A
R624	15kΩ		1 A
R625	100Ω		1 B , C

x		Y	Z
VR601	5k Ω (B)	(103037)	1 C
C601	$1.5\mu F$		2 C
C602	$1.5\mu F$		1 C
C603	$150 pF$ $\pm 10\%$		2 B
C604	150 pF }	Capacitor 6.3 WV Electrolytic Capacitor	1 B
C605	100 μF }		2 B, C
C606	100 μF }		1 B, C
C607	150 pf }	50 WV Ceramic	2 A
C608		Capacitor	1 A
C609	47 μF }	6.3 WV Electrolytic	2 B
C610	47 μF }	Capacitor	1 B
C611	10 μF)	25 WV Alum. Electrolytic	2 A
C612	10 μF)	Capacitor	1 A
C613	$0.33\mu F$ $0.33\mu F$	25 WV Electrolytic Capacitor	2 A 1 A
C615 C616 C617 C618 C619	$ \begin{vmatrix} 0.012\mu F \\ 0.012\mu F \\ 0.0033\mu F \\ 0.0068\mu F \end{vmatrix} \pm 10\% $	50 WV Mylar Capacitor	2 A, B 1 A, B 2 B 1 B 2 C
TR601	2SC693G(Y)	(030575-2)	2 B
TR602	2SC693G(Y)		1 B
TR603	2SC693F(Y)	(030575-1)	2 A
TR604	2SC693F(Y)		1 A



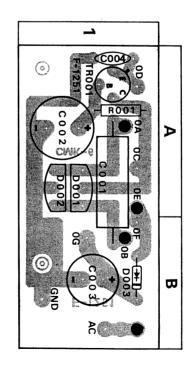
LIPPLE FILTER BLOCK (F-1246)

X	Y	2
R002	560Ω ±10% 3W Cement Resistor	1 B
Roo3	1.5k Ω \pm 10% ${}^{1}\!\!4$ W Carbon Resistor	1 B
R004	150Ω $\pm 10\%$ $\frac{1}{2}$ W Solid Resistor	1 B
R005	3.9kΩ)	1 A
R006	8.2kΩ	1 A
R007	10kΩ > ±10% ¼W Carbon Resistor	1 A
R008	220Ω	1 A
R009	470 Ω)	1 A
C005	330 µF 16 WV Eletrolytic Capacitor	1 B
C006	0.01μF ±100% 50 WV Ceramic Capacitor	1 B
C007	220 µF 25 WV Electrolytic Capacitor	1 A
C008	0.01 μF +100 % 50 WV Ceramic Capacitor	1 A
C009	330 μF) Se May Electrolytic	1 A
C010	$100 \mu F$ 25 WV Electrolytic Capacitor	1 A
TR002	2SC971(Y) (030553, -1)	1 B
TR003	2SC971(Y) (030553, -1)	1 A
TR004	2SC536(E) (030515-4)	1 A
D004	S-05-01 or (031077)	1 B
	10D-1 (031034)	
D005	S-05-01 or (031077) 100-1 (031034)	1 B
ZD001	ZB1-12 (031064-1)	1 B



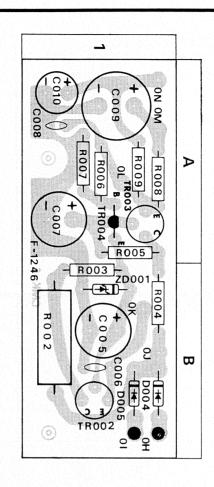
POWER BLOCK (F-1251)

х			Y		Z
R001	12kΩ	±10%	1/4 W	Carbon Resistor	1 A
C001	0.0047 μF	±10%	600WV	Oil Capacitor	1A, B
C002	100 μF		75 WV	Electrolytic Capacitor	1 A
C003	330 μF		10 WV	Electrolytic Capacitor	1 B
C004	0.01 μF		500WV	Ceramic Capacitor	1 A
TRoon	2 \$C627 (1~3)		(030558, -1, -2)	1 A
D001	10DC-2			(031080)	1 A
D002	10DC-2R			(031080-1)	1 A
D003	10D05			(0310880)	1 B



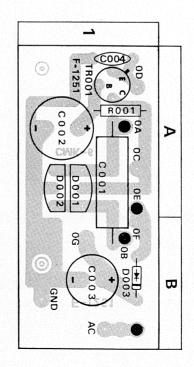
LIPPLE FILTER BLOCK (F-1246)

X	Y	Z
R002	560Ω $\pm 10\%$ 3W Cement Resist	or 1 B
R003	1.5k Ω $\pm 10\%$ $\frac{1}{4}$ W Carbon Resist	or 1 B
R004	150 Ω $\pm 10\%$ ½W Solid Resistor	1 B
R005	3.9kΩ)	1 A
R006	8.2kΩ	1 A
R007	$ 10k\Omega\rangle\pm10\%$ ${}^{1}_{4}$ W Carbon Resista	or 1 A
R008	220 Ω	1 A
R009	470 Ω)	1 A
C005	330μF 16 WV Eletrolytic Capa	citor 1 B
C006	$0.01 \mu F + \frac{100}{0}\%$ 50 WV Ceramic	citor 1 B
C007	220 μF 25 WV Electrolytic Capa	
C008	$0.01 \mu F = \frac{+100}{0}\%$ 50 WV Ceramic Capa	citor 1 A
C009	$330 \mu\text{F}$ 25 WV Electrolytic	1 A
C010	100 μF) 25 VVV Capa	icitor 1 A
TR002	2SC971(Y) (030553	3, -1) 1 B
TR003	2SC971(Y) (03055	3, -1) 1 A
TR004	2SC536(E) (0305	15-4) I A
D004		077) 1 B
		1034)
D005		1077) 1 B 1034)
ZD001	ZB1-12 (0310	64-1) 1 B



POWER BLOCK (F-1251)

X			Y		Z
R001	12kΩ	±10%	1/4W	Carbon Resistor	1 A
C001	0.0047μF	±10%	600WV	Oil Capacitor	1 A , B
C002	100 μF		75 WV	Electrolytic Capacitor	1 A
C003	330 μF		10 WV	Electrolytic Capacitor	1 B
C004	0.01 μF		500WV	Ceramic Capacitor	1 A
TRoot	2SC627 (l∼3)		(030558, -1, -2)	1 A
D001	10DC-2			(031080)	1 A
D002	10DC-2R			(031080-1)	1 A
D003	10D05			(0310880)	1 B

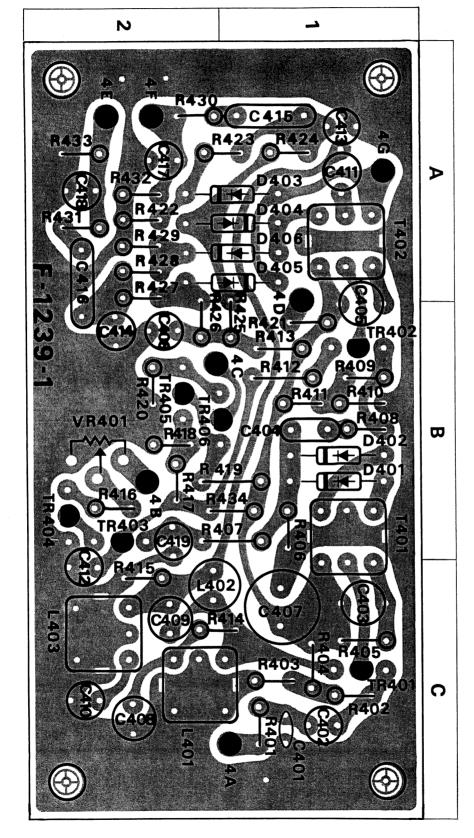


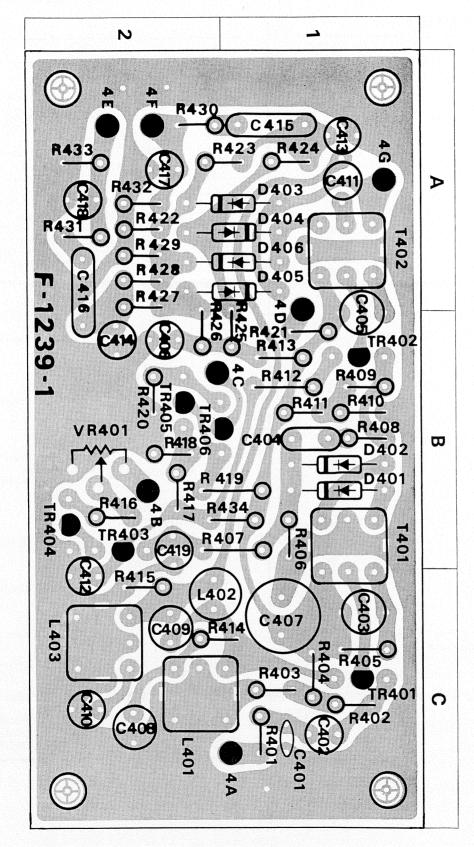
X: Parts No. Y: Parts Name Z: Position of Parts

FM MPX. BLOCK $\langle F-1239-1E \rangle$

R401 $lk\Omega$ R402 $100k\Omega$ R403 $15k\Omega$ R404 $22k\Omega$ R405 $68k\Omega$ R406 $100k\Omega$ R407 $100k\Omega$ R408 $4.7k\Omega$ R410 $2.2k\Omega$ R411 $22k\Omega$ R412 330Ω R413 $220k\Omega$ R414 $47k\Omega$ R415 $2.2k\Omega$ R416 $47k\Omega$ R417 $22k\Omega$ R418 $22k\Omega$ R419 $3.3k\Omega$ R420 4.7Ω R421 47Ω R422 $220k\Omega$ R423 $10k\Omega$ R424 $10k\Omega$ R425 $220k\Omega$ R426 $220k\Omega$ R427 $10k\Omega$ R428 $10k\Omega$	1
R402 $100k\Omega$ R403 $15k\Omega$ R404 $22k\Omega$ R405 $68k\Omega$ R406 $100k\Omega$ R407 $100k\Omega$ R408 $4.7k\Omega$ R409 $100k\Omega$ R410 $2.2k\Omega$ R411 $22k\Omega$ R412 330Ω R413 $220k\Omega$ R414 $47k\Omega$ R415 $2.2k\Omega$ R416 $47k\Omega$ R417 $22k\Omega$ R418 $22k\Omega$ R419 $3.3k\Omega$ R420 4.7Ω R421 47Ω R422 $220k\Omega$ R423 $10k\Omega$ R424 $10k\Omega$ R425 $220k\Omega$ R426 $220k\Omega$ R427 $10k\Omega$ R428 $10k\Omega$	1 C
R403 $15k\Omega$ R404 $22k\Omega$ R405 $68k\Omega$ R406 $100k\Omega$ R407 $100k\Omega$ R408 $4.7k\Omega$ R409 $100k\Omega$ R410 $2.2k\Omega$ R411 $22k\Omega$ R412 330Ω R413 $220k\Omega$ R414 $47k\Omega$ R415 $2.2k\Omega$ R416 $47k\Omega$ R417 $22k\Omega$ R418 $22k\Omega$ R419 $3.3k\Omega$ R420 4.7Ω R421 47Ω R422 $220k\Omega$ R423 $10k\Omega$ R424 $10k\Omega$ R425 $220k\Omega$ R426 $220k\Omega$ R427 $10k\Omega$ R428 $10k\Omega$	1 C
R404 $22k\Omega$ R405 $68k\Omega$ R406 $100k\Omega$ R407 $100k\Omega$ R408 $4.7k\Omega$ R409 $100k\Omega$ R410 $2.2k\Omega$ R411 $22k\Omega$ R412 330Ω R413 $220k\Omega$ R414 $47k\Omega$ R415 $2.2k\Omega$ R416 $47k\Omega$ R417 $22k\Omega$ R418 $22k\Omega$ R419 $3.3k\Omega$ R420 4.7Ω R421 47Ω R422 $220k\Omega$ R423 $10k\Omega$ R424 $10k\Omega$ R425 $220k\Omega$ R426 $220k\Omega$ R427 $10k\Omega$ R428 $10k\Omega$	1 C
R405 $68k\Omega$ R406 $100k\Omega$ R407 $100k\Omega$ R408 $4.7k\Omega$ R409 $100k\Omega$ R410 $2.2k\Omega$ R411 $22k\Omega$ R412 330Ω R413 $220k\Omega$ R414 $47k\Omega$ R415 $2.2k\Omega$ R416 $47k\Omega$ R417 $22k\Omega$ R418 $22k\Omega$ R419 $3.3k\Omega$ R420 4.7Ω R421 47Ω R422 $220k\Omega$ R423 $10k\Omega$ R424 $10k\Omega$ R425 $220k\Omega$ R426 $220k\Omega$ R427 $10k\Omega$ R428 $10k\Omega$	1 C
R406 $100k\Omega$ R407 $100k\Omega$ R408 $4.7k\Omega$ R409 $100k\Omega$ R410 $2.2k\Omega$ R411 $22k\Omega$ R412 330Ω R413 $220k\Omega$ R414 $47k\Omega$ R415 $2.2k\Omega$ R416 $47k\Omega$ R417 $22k\Omega$ R418 $22k\Omega$ R419 $3.3k\Omega$ R420 4.7Ω R421 47Ω R422 $220k\Omega$ R423 $10k\Omega$ R424 $10k\Omega$ R425 $220k\Omega$ R426 $220k\Omega$ R427 $10k\Omega$ R428 $10k\Omega$	1 C
R407 $100k\Omega$ R408 $4.7k\Omega$ R409 $100k\Omega$ R410 $2.2k\Omega$ R411 $22k\Omega$ R412 330Ω R413 $220k\Omega$ R414 $47k\Omega$ R415 $2.2k\Omega$ R416 $47k\Omega$ R417 $22k\Omega$ R418 $22k\Omega$ R419 $3.3k\Omega$ R420 4.7Ω R421 47Ω R422 $220k\Omega$ R423 $10k\Omega$ R424 $10k\Omega$ R425 $220k\Omega$ R426 $220k\Omega$ R427 $10k\Omega$ R428 $10k\Omega$	1 B
R408 $4.7k\Omega$ R409 $100k\Omega$ R410 $2.2k\Omega$ R411 $22k\Omega$ R412 330Ω R413 $220k\Omega$ R414 $47k\Omega$ R415 $2.2k\Omega$ R416 $47k\Omega$ R417 $22k\Omega$ R418 $22k\Omega$ R419 $3.3k\Omega$ R420 4.7Ω R421 47Ω R422 $220k\Omega$ R423 $10k\Omega$ R424 $10k\Omega$ R425 $220k\Omega$ R426 $220k\Omega$ R427 $10k\Omega$ R428 $10k\Omega$	1, 2 B
R410 $2.2k\Omega$ R411 $22k\Omega$ R412 330Ω R413 $220k\Omega$ R414 $47k\Omega$ R415 $2.2k\Omega$ R416 $47k\Omega$ R417 $22k\Omega$ R418 $22k\Omega$ R419 $3.3k\Omega$ R420 4.7Ω R421 47Ω R422 $220k\Omega$ R423 $10k\Omega$ R424 $10k\Omega$ R425 $220k\Omega$ R426 $220k\Omega$ R427 $10k\Omega$ R428 $10k\Omega$	1 B
R411 $22k\Omega$ R412 330Ω R413 $220k\Omega$ R414 $47k\Omega$ R415 $2.2k\Omega$ R416 $47k\Omega$ R417 $22k\Omega$ R418 $22k\Omega$ R419 $3.3k\Omega$ R420 4.7Ω R421 47Ω R422 $220k\Omega$ R423 $10k\Omega$ R424 $10k\Omega$ R425 $220k\Omega$ R426 $220k\Omega$ R427 $10k\Omega$ R428 $10k\Omega$	1 B
R412 330 Ω R413 220k Ω R414 $47k Ω$ R415 $2.2k Ω$ R416 $47k Ω$ R417 $22k Ω$ R418 $22k Ω$ R419 $3.3k Ω$ R420 $4.7 Ω$ R421 $47 Ω$ R422 $220k Ω$ R423 $10k Ω$ R424 $10k Ω$ R425 $220k Ω$ R426 $220k Ω$ R427 $10k Ω$ R428 $10k Ω$	1 B
R413 $220k\Omega$ R414 $47k\Omega$ R415 $2.2k\Omega$ R416 $47k\Omega$ R417 $22k\Omega$ R418 $22k\Omega$ R419 $3.3k\Omega$ R420 4.7Ω R421 47Ω R422 $220k\Omega$ R423 $10k\Omega$ R424 $10k\Omega$ R425 $220k\Omega$ R426 $220k\Omega$ R427 $10k\Omega$ R428 $10k\Omega$	1 B
R414 $47k\Omega$ R415 $2.2k\Omega$ R416 $47k\Omega$ R417 $22k\Omega$ R418 $22k\Omega$ R419 $3.3k\Omega$ R420 4.7Ω R421 47Ω R422 $220k\Omega$ R423 $10k\Omega$ R424 $10k\Omega$ R425 $220k\Omega$ R426 $220k\Omega$ R426 $220k\Omega$ R427 $10k\Omega$ R428 $10k\Omega$	1 B
R415 $2.2k\Omega$ R416 $47k\Omega$ R417 $22k\Omega$ R418 $22k\Omega$ R419 $3.3k\Omega$ R420 4.7Ω R421 47Ω R422 $220k\Omega$ R423 $10k\Omega$ R424 $10k\Omega$ R425 $220k\Omega$ R426 $220k\Omega$ R427 $10k\Omega$ R428 $10k\Omega$	1 B
R416 $47k\Omega$ R417 $22k\Omega$ R418 $22k\Omega$ R419 $3.3k\Omega$ R420 4.7Ω R421 47Ω R422 $220k\Omega$ R423 $10k\Omega$ R424 $10k\Omega$ R425 $220k\Omega$ R426 $220k\Omega$ R427 $10k\Omega$ R428 $10k\Omega$	1, 2C
R417 $22k\Omega$ R418 $22k\Omega$ R419 $3.3k\Omega$ R420 4.7Ω R421 47Ω R422 $220k\Omega$ R423 $10k\Omega$ R424 $10k\Omega$ R425 $220k\Omega$ R426 $220k\Omega$ R427 $10k\Omega$ R428 $10k\Omega$	2 C
R418 $22k\Omega$ R419 $3.3k\Omega$ R420 4.7Ω R421 47Ω R422 $220k\Omega$ R423 $10k\Omega$ R424 $10k\Omega$ R425 $220k\Omega$ R426 $220k\Omega$ R427 $10k\Omega$ R428 $10k\Omega$	2 B
$\begin{array}{lll} R419 & 3.3k Ω \\ R420 & 4.7 Ω \\ R421 & 47 Ω \\ R422 & 220k Ω \\ R423 & 10k Ω \\ R424 & 10k Ω \\ R425 & 220k Ω \\ R426 & 220k Ω \\ R427 & 10k Ω \\ R428 & 10k Ω \\ \end{array}$	2 B
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	2 B
R421 47 Ω R422 220k Ω R423 $10k Ω$ R424 $10k Ω$ R425 $220k Ω$ R426 $220k Ω$ R427 $10k Ω$ R428 $10k Ω$	1,2B
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	2 B
$ \begin{array}{llllllllllllllllllllllllllllllllllll$	1 B
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	2 A
$ \begin{array}{lll} R425 & 220 k Ω \\ R426 & 220 k Ω \\ R427 & 10 k Ω \\ R428 & 10 k Ω \\ \end{array} $	1, 2 A
R426 220 kΩ R427 10 kΩ R428 10 kΩ	1 A
R427 10kΩ R428 10kΩ	1 B
R428 10kΩ	2 B
	2 A
	2 A
R ₄₂₉ 220kΩ	2 A
R430 56kΩ	2 A
R431 56kΩ	2 A
R ₄₃₂ 15k Ω	2 A
R433 15kΩ	2 A
R434 $47k\Omega$)	1, 2 B
VR ₄₀₁ 200k Ω (B) Indicator Adjust (1032150)	2 B
C401 68 pF ±10% 50 WV Ceramic Capacito	r 1C
C402 10 μF 10 WV Electrolytic Capacito	
C403 0.01 μ F \pm 5% 50 WV Styrol Capacitor	1 C
C404 0.022 μ F $\pm 10\%$ 50 WV Mylar Capacitor	1 B
C405 4700 pF ± 5% 50 WV Styrol Capacitor	1 A, B
C406 1 μ F 50 WV Electrolytic Capacito	1
C407 47 µF 25 WV Electrolytic Capacito	1
C408 0.01 µF	2 C
C409 2200 pF >± 5% 50 WV Styrol Capacitor	2 C
C410 270 pF)	2 C
C411 10 µF 25 WV Electrolytic Capacito	1
C412 1 µF 50 WV Electrolytic Capacito	
C413 680 pF \ ± 5% 50 WV Styrol Capacitor	1 A
C414 680 pF 5 578 30 VVV STYTOT Capacitor	2 B
C415 0.15 μ F $\pm 10\%$ 50 WV Mylar Capacitor	1 A
C416 $0.15\mu\text{F}$	2 A
C417 6800 pF ± 5% 50 WV Styrol Capacitor	2 A
C418 6800 pF)	2 A
C419 1 μF 50 WV Electrolytic Capacito	or 2A
TR ₄₀₁ 2SC711 (F, G) (035732, 3)	

X	Y		Z	
TR402	1	(0305732, 3)	1 B	
TR403	2SC711 F, G)	(0305732, 3)	2 B	
TR404		(0305732, 3)	2 B	
TR405	2SC733 (Y)	(0305371)	2 B	
TR406	2SC735 (O, Y)	(0305640, 1)	1,2B	
D401	1	(0310400)	1 B	
D402] IN34A	(0310400)	1 B	
D403)	(0310401)	1 A	
D404		(0310401)	1 A	
D405) IN34A (Y)	(0310401)	1 A	
D406)	(0310401)	1 A	
T401	19kHz Coil	(4240580)	1 B	
T402	38kHz Coil	(4240600)	1 A	
L401	19kHz Coil	(4240590)	2 C	
L402	Micro Inductor	(4900100)	1,2C	
L403	67kHz Coil	(4240410)	2 C	



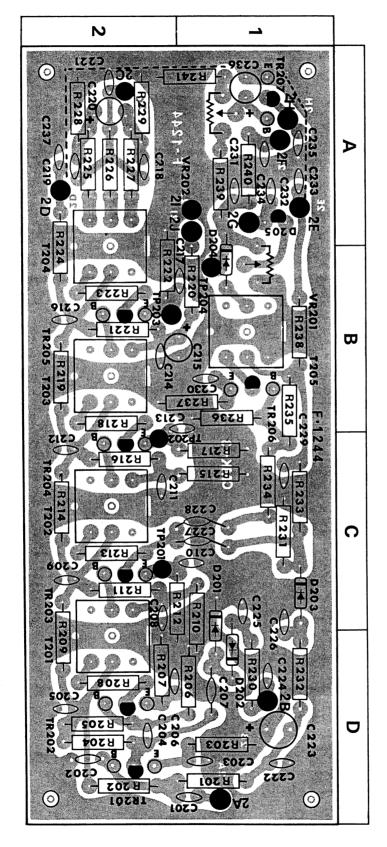


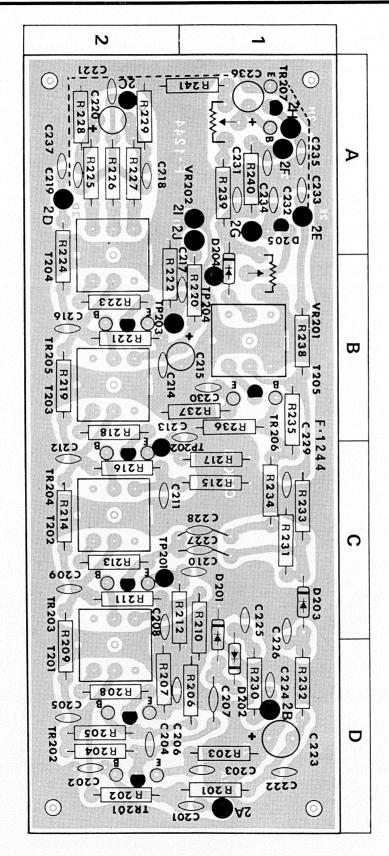
X: Parts No. Y: Parts Name Z: Position of Parts

FM IF BLOCK (F-1244)

Х	Y Y	Z
		1
R201	4.7kΩ	1, 2 D
R202	180kΩ	2 D
R203	390Ω	1 D
R204	1kΩ	2 D
R205	12kΩ	2 D
R206	5.6kΩ	1 D
R207	1kΩ	2 D
R208	1.2kΩ	2 D
R209	22Ω	2C, D
R210	5.6kΩ	1C, D
R211	15kΩ	2 C
R212	1kΩ	2C, D
R213	1kΩ	2 C
R214	22Ω	2 C
R21.6	5.6kΩ	10
R216	15kΩ	2 C
R217	1kΩ	10
R218	680Ω	2 B
R219	22Ω	2 B
R220	6.8kΩ	1 A , B
R221	$10k\Omega$ $\rangle \pm 10\%$ ¼W Carbon Resistor	2 B
R222	lkΩ	2 A , B
R223	1κΩ	2 B
R224	22Ω	2A,2B
R225	1κΩ	2 A
		2 A
R226	68Ω	2 A
R227	lkΩ	2 A
R228	10kΩ	2 A
R229	10kΩ	10
R230	100kΩ	10
R231	12kΩ	10
R232	220kΩ	10
R233	100kΩ	10
R234	10Ω	+
R235	22kΩ	1 B , C
R236	10kΩ	1 B
R237	īkΩ	1, 2 B
R238	22Ω	1 B
R239	3.9kΩ	1 A
R240	3.9kΩ	1 A
R241	10kΩ)	1, 2 A
1/5		
VR201	50 k $\Omega(B)$ Tuning Meter Adjustor (10302)	
VR202	100k Ω (B) Muting Adjustor (10303-	4) 1 A
C201	1000 pF) +80 % 25 WV Ceramic	1, 2 D
C203	$ \begin{vmatrix} 1000 \text{ pf} \\ -20\% & 25 \text{ WV Ceramic} \\ 0.02 \mu\text{F} \end{vmatrix} $ Capacite	
C204	47 pF ±10% 50 WV Ceramic	2 D
	Capacite	
C205	$0.02\mu F$ $+80\%$ 25 WV Ceramic	2 D
C206	$0.02\mu\text{F}$ $\left\{\begin{array}{c} -20\% & 25\% & \text{Capacity} \\ \text{Capacity} & \text{Capacity} \end{array}\right.$	or 2D
C207	47 pF ±10% 50 WV Ceramic Capacit	1 D
C208	0.02μF)	2 C
C209	1 1	2 C
C210	0 00 or (-20/8 25 111 Cerdinic	1,6
C210	0.02μF Capacit	or 1C
CETT	J.02pi. /	1 ~ ~

X		Y		Z
C212	0.02μF)			2 C
C213		25 WV	Ceramic	1,2B
C214	0.02μ F		Capacitor	2 B
C215	•	50 WV	Electrolytic	1,2B
C216	0.02μ F) +80%	05 14(1)	Capacitor	2 B
C217	$0.02 \mu F \begin{cases} +80 \% \\ 0.02 \mu F \end{cases}$	25 VV V	Ceramic Capacitor	1,2B
C218		50 \\\\	Ceramic	1, 2 B
C219	220 pF)	30 111	Capacitor	2 A
C220	10μF	10 WV	Electrolytic	2 A
	·		Capacitor	
C221	220 pF ±10%	50 WV	Ceramic Capacitor	2 A
C222	$0.02 \mu F + \frac{+80}{-20}\%$	25 WV	Ceramic Capacitor	1 D
C223	3.3μ F	16 WV	Electrolytic Capacitor	1 D
C224	0.01 µF			1 D
C225	$0.01 \mu F \left. \begin{array}{c} +80 \\ -20 \end{array} \right. \%$	25 WV	Ceramic	1 C
C226	0.02μ F $)$		Capacitor	1 C, D
C227	$4.7 \text{pF} \pm 10 \%$	50 WV	Ceramic	1 C
C228	10 pF J		Capacitor	1 C
C229	0.02μ F			1 C
C230	0.02μ F			1 B
C231	0.02μ F $\left \begin{array}{c} +80 \% \\ -20 \% \end{array}\right $	25 \A/\/	Ceramic	1 A
C232	·	25 VV V	Capacitor	1 A
C233	0.02 <i>μ</i> F		00,000	1 A
C234	0.02 <i>μ</i> F			1 A
C235	0.04μF)	60 \A/\/	El	1 A
C236	1 μF	50 WV	Capacitor	
C237	0.04μ F $^{+80}_{-20}\%$	25 WV	Ceramic Capacitor	2 A
TR201	2\$C829(C)			2 D
TR202	2SC829(C)			2 D
TR203	2SC829(C)		(000544.3)	2 C
TR204	25C829(C)		(030546-1)	2 C
TR205	2SC829(C)			2 B
TR206	2SC829(C)			1 B
TR207	2SC828(T)		(030527)	1 A
D201	IN60)			1 C, D
D202	IN60			1 C, D
D203	IN60		(031033, -1)	1 C
D204	IN60)			1 A, B
D205	D\$410		(034003)	1 A
T201	FM IFT)			2 C, D
T202	FM IFT 10.7MHz		(423543)	2 C
T203	FM IFT 10.7MHz		(423542)	2 B
T204	FM Detector 10.7/		(423518)	2 A, B
T205	FM Meter Transfo		(423529)	1 B
	1			1.1



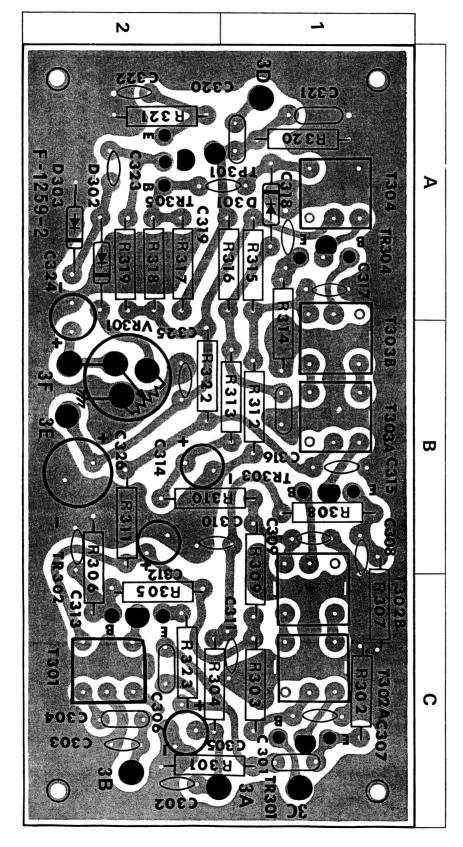


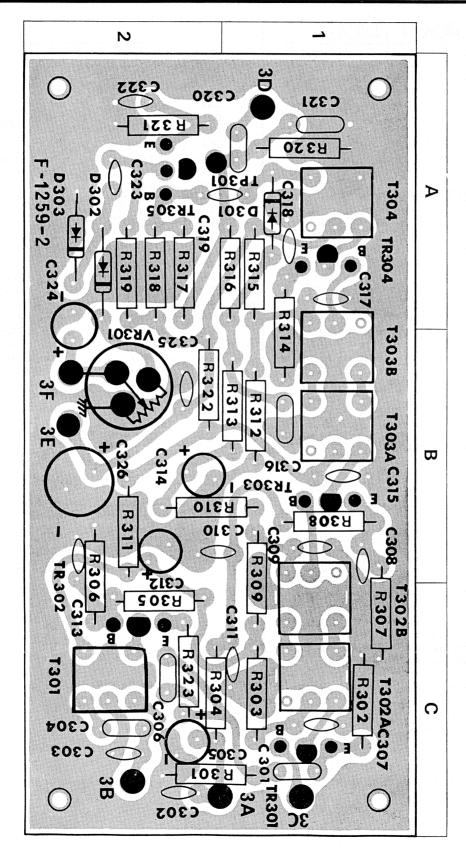
X: Parts No. Y: Parts Name Z: Position of Parts

AM IF BLOCK <F-1259-2>

VIAI II	DEOCK (1-1233-2/			
x	Y	Z		
R301	1kΩ)	1, 2 C		
R302	1kΩ	1 C		
R303	560Ω	1 C		
R304	12kΩ	2 C		
R305	39kΩ	2 C		
R306	4.7kΩ	2 B , C		
R307	lkΩ	1 B , C		
R308	4.7kΩ	1 B		
R309	39kΩ	1 B , C		
R310	4.7kΩ	1, 2 B		
R311	120Ω	2 B		
R312	22kΩ \±10% ¼W Carbon Resistor	1 B		
R313	3.9kΩ	1 B		
R314	lkΩ	1 A , B		
R315	82kΩ	1.4		
R316	33kΩ	1 A		
R317	33kΩ	2 A		
R318	330kΩ	2 A		
R319	4.7kΩ	2 A		
R320	2.2kΩ	1 A		
R321	1.2kΩ	2 A		
R322	120Ω	2 B		
R323	100	2 C		
VR301	$47k\Omega(B) \qquad (103517)$	2 B		
C301	$0.01 \mu F$ $\pm 10\%$ 50 WV Mylar Capacitor	1 C		
C302	0.04μ F $+80\%$ 25 WV Ceramic Capacitor	2 C		
C303	10pF ±10% 50 WV Ceramic Capacitor	2 C		
C304	430pF ± 5% 125WV Styrol Capacitor	2 C		
C305	3.3μF 16 WV Electrolytic	2 C		
C	Capacitor $0.01\mu\mathrm{F}$ $\pm10\%$ 50 WV Mylar Capacitor	2 C		
C306 C307	0.04μF)	1 C		
C308	0.04 <i>u</i> F	1 B		
C309	$0.04\mu F$ $+80\% 25$ WV Ceramic	1 B		
C310	0.04 µF Capacitor	1,2B		
C311	0.04µF)	1 C		
C311	10 μF 16 WV Electrolytic	2 B		
C313	Capacitor $0.04 \mu F$ $^{+80}_{-20}\%$ 25 WV Ceramic	2 B		
	Capacitor	1, 2 B		
C314	Capacitor			
C315	$0.04\mu F$ $^{+80}_{-20}\%$ 25 WV Ceramic Capacitor	1 B		
C316	0.01μF ±10% 50 WV Mylar Capaitor	1 B		
C317	$0.04\mu\text{F}$ +80% 25 WV Ceramic	1 A		
C318	$0.04\mu\text{F}$ $\left.\begin{array}{c} -20\% & 25\% & \text{Capacitor} \end{array}\right $	1A,1B		
C319	0.001 μF)	1,2A		
C320	$0.022 \mu F$ $\pm 10\%$ 50 WV Mylar Capacitor	1 A		
C321	0.04 <i>μ</i> F <i>J</i>	1 A		
C323	$0.01 \mu F$ $^{+80}_{-20}\%$ 25 WV Ceramic Capacitor	2 A		
C324	3.3μF 25V Electrolytic Capacitor	2 A , B		
C325	$0.04 \mu F$ $^{+80}_{-20}\%$ 25 WV Ceramic Capacitor	2 B		
C326	100 µF 16 WV Electrolytic Capacitor	2 B		

х	Y		Z
TR301	2\$C929 (C∼E)	(030572-1~3)	1 C
TR302	2SC929 (D)	(030572-2)	2 C
TR303	2SC929 (C~E)	(030572-1~3)	1 B
TR304	2SC929 (C~E)	$(030572 - 1 \sim 3)$	1 A
TR305	2SC828 (T)	(030527)	2 A
D301	IN60)		1, 2 A
D302	IN60 }	(031033, -1)	2 A
D303	IN60)		2 A
T301	AM OSC	(422023)	2 C
T302(A)) ANA 157 ASSUM	(423030)	1 C
T302(B)	AM IFT 455kHz	(423031)	1 B , C
T303(A)	AAA IET AEELU-	(423030)	1 B
T303(B)	AM IFT 455kHz	(423031)	1 A, B
T304	AM IFT 455kHz	(423041)	1 A .



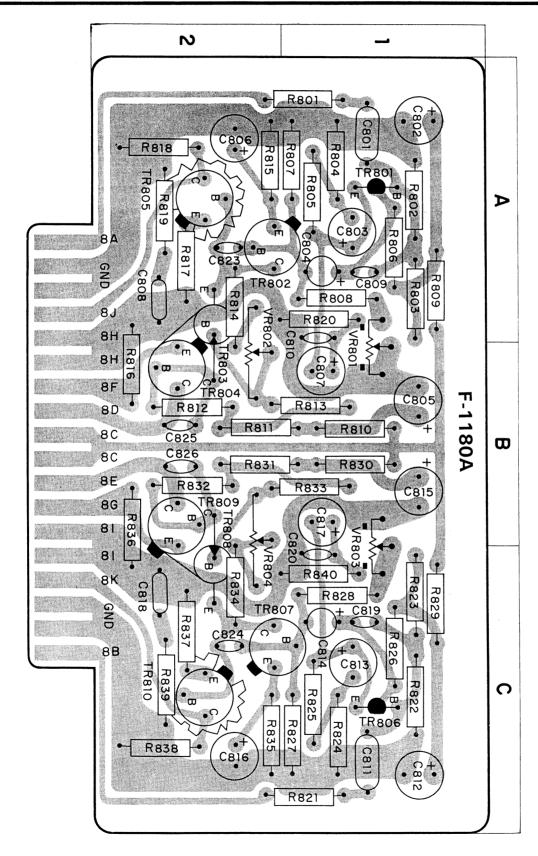


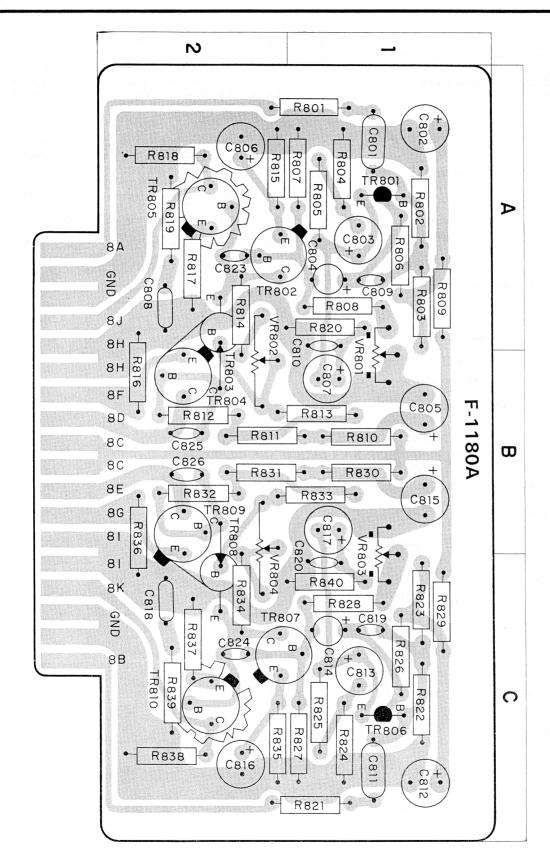
X: Parts No. Y: Parts Name Z: Position of Parts

DRIVER AMP BLOCK (F-1180A)

×	Y	Z
R801	2.2kΩ)	1, 2 A
R802	150kΩ	1 A
Raos	560kΩ	1 A
R804	1kΩ	1 A
R805	3.3kΩ	1 A
R806	3.3kΩ	1 A
R807	10kΩ	1 A
Reos	47kΩ	1 A
R809	56kΩ + 10 % 1/ M/ Coulon Bosinson	1 A
R810	$1.8k\Omega$ \Rightarrow $\pm 10\%$ $\frac{1}{4}W$ Carbon Resistor	1 B
R811	3.9kΩ	1, 2 B
R812	39Ω	2 B
R813	3.3kΩ	1, 2 B
R814	1.5kΩ	2 A , B
R815	220Ω	2 A
R816	220Ω	2 A , B
R817	39Ω	2 A
R818	220Ω)	2 A
R819	10Ω ±10% ½W Solid Resistor	2 A
R820	22kΩ 2 2 kΩ	1 A
R821	2.2kΩ	1, 2 C
R822	150kΩ	10
R823	560kΩ	10
R824	1kΩ 2.24 Ω	10
R825	3.3kΩ	1C 1C
R826	3.3kΩ	1C
R827	10kΩ 47kΩ	10
R828	$56k\Omega$ \Rightarrow $\pm 10\%$ $\frac{1}{4}$ W Carbon Resistor	10
R829 R830	1.8kΩ	1 B
R831	3.9k Ω	1, 2 B
R832	39Ω	2 B
R833	3.3kΩ	1, 2 B
R834	1.5kΩ	2 C
R835	220Ω	2 C
R836	220 Ω	2 B , C
R837	39Ω	2 C
R838	220 Ω	2 C
R839	10Ω ±10% ½W Solid Resistor	2 C
R840	22kΩ ±10% ¼W Carbon Resistor	1, 2 C
VR801	$200k\Omega(B)$ AC Balance Adjustor (103015)	1A, B
VR802	$1k\Omega(B)$ DC Balance Adjustor (103069)	2 A , B
VR803	200kΩ(B) AC Balance Adjustor (103015)	1 B , C
VR 804	$1k\Omega(B)$ DC Balance Adjustor (103069)	2B, C
C801	$0.22 \mu \text{F} \pm 10\%$ 50 WV Mylar Capacitor	1 A
C802	100μF 25 WV)	1 A
C803	220μF 10 WV	1 A
C804	10 μF 25 WV Electrolytic	1 A
C805	33μF 50 WV Capacitor	1 B
C806	100 μF 6.3 WV	2 A
C807	3.3 <i>μ</i> F 50 WV	1 B
C808	0.047μ F $\pm 10\%$ 50 WV Mylar Capacitor	2 A
C809	33 pF) ±10% 50 WV Ceramic	1 A
C609		
C810 C811	$33 pF$ Copacitor $0.22 \mu F \pm 10\% 50 WV Mylar Capacitor$	1 A

x		Y	Z
C812	100μ	25 WV)	1 C
C813	200 <i>μ</i> F	10 WV	1 C
C814	10 <i>μ</i> F	25 WV Electrolytic	1 C
C815	33 <i>μ</i> F	50 WV Capacitor	1 B
C816	100 <i>μ</i> F	6.3 WV	2 C
C817	3.3μ F	50 WV)	1 B
C818	$0.047 \mu \text{F} \pm 10 \%$	50 WV Mylar Capacitor	2 C
C819	33 pF)		1 C
C820	33 pF		1 C
C823	33 pF + 10 %	50 WV Ceramic	2 A
C824	33 pF 7 10/8	Capacitor	2 C
C825	330 pF	,	2 B
C826	330 pF)		2 B
TR801	2SC458LG(B)	(030531)	1 A
TR802	2SC627(2)	(030558-1)	2 A
TR803	2SC281(B)	(030512-1)	2 A, B
TR804	2SC959 (K, L, M)	(0305741,2,3)	2 B
TR805	2SA606 (K, L, M)	(0300211,2,3)	2 A
TR806	2SC458LG(B)	(030531)	1 C
TR807	2SC627(2)	(030558-1)	1,2C
TR808	2SC281(B)	(030512-1)	2 B, C
TR809	2SC959 (K, L, M)	(0305741,2,3)	2 B, C
TRaio	2SA606 (K, L, M)	(0300211,2,3)	2 C





OTHER PARTS AND THEIR POSITION ON CHASSIS

X: Parts No. Y: Parts Name

R031 R051 $56Ω$ $80Ω$ $10Ω$ R052 $680Ω$ $10Ω$ R063 $10Ω$ R064 $68kΩ$ R062 $68kΩ$ R063 $12kΩ$ R0664 $12kΩ$ R0665 $33kΩ$ $10Ω$ R0666 $33kΩ$ $10Ω$ R0666 $33kΩ$ $10Ω$ R0666 $33kΩ$ $10Ω$ R0667 $100kΩ$ R0668 $30kΩ$ $100kΩ$ R0669 $820kΩ$ R071 $0.5Ω$ R072 $0.5Ω$ R073 $0.5Ω$ R074 $0.5Ω$ R075 $330Ω$ $100kΩ$ R077 8070 $330Ω$ $100kΩ$ R078 $100kΩ$ R079 $100kΩ$ R071 $100kΩ$ R071 $100kΩ$ R071 $100kΩ$ R072 $100kΩ$ R073 $100kΩ$ R074 $100kΩ$ R075 $100kΩ$ $100kΩ$ R076 $100kΩ$ R077 $100kΩ$ $100kΩ$ R077 $100kΩ$ $100kΩ$ $100kΩ$ R078 $100Ω$ $100kΩ$ $100μΩ$ $100μ$	Х	Υ	
Rosi Ross Aso Ω Elo% 1/4 W Carbon Resistor	R031	2.2kΩ)	
Ros2 Ros3 10Ω Ros3 10Ω Ros3 10Ω Ros4 Ros4 Ros5 10Ω Ros4 Ros5 Ros5 Ros5 10Ω Ros6 Ros5 Ros5 Ros6 Ros6 Ros6 Ros6 Ros6 Ros6 Ros6 Ros6	1	56Ω $\rbrace \pm 10\%$ $\rlap{4}W$ Cart	oon Resistor
Ro61 Ro62 68kΩ Ro63 Ro64 68kΩ Ro65 Ro64 Ro65 Ro66 Ro66 Ro66 Ro66 Ro66 Ro66 Ro66 Ro66 Ro67 Ro66 Ro67 Ro66 Ro70 Ro50 Ro70 Ro71 Ro51 Ro51 Ro52 Speaker Selector Switch Y-1-4-4 Ro52 Ro69 Ro70 Ro72 Ro73 Ro74 Ro75 Ro76 Ro77 Ro78 Ro77 Ro78 Ro79 Ro79 Ro70			
R062 68kΩ R063 12kΩ R064 12kΩ R064 12kΩ R066 33kΩ R066 33kΩ R067 100kΩ R068 100kΩ R069 820kΩ R070 820kΩ R071 0.5Ω R072 0.5Ω R073 0.5Ω R074 330Ω R075 560Ω R079 18Ω ±10% 1W Metal Film Resistor R079 18Ω ±10% 1W Carbon Resistor VR703, 704 250kΩ(B) × 2 Volume, Variable Resistor C051 0.04μF C052 0.04μF C053 2200μF C054 2200μF C055 2200μF C055 0.033μF C056 1000μF C057 0.033μF C058 0.047μF C059 0.047μF C059 0.047μF C059 0.047μF C059 0.047μF C059 0.068μF C059 0.06μF C0	Ro53	10Ω \	
Ro64 Ro64 Ro64 Ro64 Ro65 Ro66 Ro66 Ro66 Ro67 Ro67 Ro67 Ro68 Ro67 Ro68 Ro69 Ro70 Ro71 Ro72 Ro73 Ro73 Ro73 Ro74 Ro75 Ro75 Ro77 So0Ω Ro77 So0Ω Ro77 So0Ω Ro77 So0Ω Ro79 Ro79 Ro79 Ro79 Ro79 Ro71 Ro79 Ro79 Ro70 Ro70 Ro70 Ro70 Ro71 Ro70 Ro70 Ro71 Ro70 Ro70 Ro70 Ro70 Ro70 Ro70 Ro70 Ro70	R061	68kΩ	
R064 33 kΩ R065 33 kΩ R066 33 kΩ R067 100 kΩ R068 100 kΩ R069 820 kΩ R070 820 kΩ R071 0.5 Ω R073 0.5 Ω R074 0.5 Ω R075 330 Ω R076 560 Ω R077 560 Ω R077 10	R062	68kΩ	
R066 33kΩ R066 33kΩ R067 100kΩ R068 100kΩ R070 820kΩ R071 0.5Ω R072 0.5Ω R073 0.5Ω R074 330Ω R075 560Ω R075 560Ω R079 18Ω ±10% 1W Metal Film Resistor S080	R063	12k Ω	
R066 33kΩ R067 100kΩ R068 100kΩ R068 820kΩ R070 820kΩ R071 0.5Ω R072 0.5Ω R073 0.5Ω R074 0.5Ω R075 330Ω R076 330Ω R076 330Ω R077 560Ω ±10% 100	R064	12kΩ	
Ro67 100kΩ Ro68 100kΩ Ro69 820kΩ Ro70 820kΩ Ro71 0.5Ω Ro72 0.5Ω Ro73 0.5Ω Ro74 0.5Ω Ro75 330Ω Ro76 330Ω Ro77 560Ω $\pm 10\%$ LW Metal Film Resistor Ro77 $560Ω$ $\pm 10\%$ LW Metal Film Resistor Ro78 $560Ω$ $\pm 10\%$ LW Metal Film Resistor Ro79 $18Ω = \pm 10\%$ LW Metal Film Resistor $\pm 10\%$	R065	33k Ω \rangle \pm 10% $\%$ $\%$ Carb	oon Resistor
R068 R070 820kΩ R071 0.5Ω R072 0.5Ω R073 0.5Ω R073 0.5Ω R074 0.5Ω R075 330Ω R076 330Ω R077 560Ω ±10% IW Metal Film Resistor R078 S00Ω ±10% IW Metal Film Resistor R079 18Ω ±10% IW Metal Film Resistor VR703,704 250kΩ(B) × 2 Volume, Variable Resistor C051 0.04 μF −20% 25W Ceramic Capacitor C052 0.04 μF −20% 25W Ceramic Capacitor C054 0.04 μF −20% 25W Ceramic Capacitor C055 0.03 μF 50 WV Electrolytic Capacitor C056 1000 μF 50 WV Capacitor C057 0.033 μF −20% 400WV Capacitor C059 0.068 μF ±10% 600WV 0.068 μF −20% 400WV Capacitor C25C494 (R, Y, BL) (0305220,1,2) TR051~054 Selector Switch Y-4-10-4 (110415) S2 Speaker Selector Switch Y-1-4-4 (110121) S3 Tape Monitor (1) Switch (117017) S4 Loudness Switch (117017) S5 Mode Switch (117017) S6 Loudness Switch (117017) S7 High Filter Switch (117017) S8 Antenna Att. Switch (117017) S10 Power Switch (113016) Prower Switch (113016) J001 DIN Connector (243004) J002 Headphones Jack (243007-1) J003 Multi Connector (242002) M001 Tuning Meter (090020-1)	R066	33k Ω	
R069 820kΩ R070 820kΩ R071 0.5Ω R072 0.5Ω R073 0.5Ω R074 0.5Ω R075 330Ω R076 330Ω R077 560Ω R079 18Ω ±10% 18Ω ±10% ½W Carbon Resistor VR703,704 250kΩ(B) × 2 Volume, Variable Resistor C051 0.04 μF −20% C052 2200 μF 50 WV C053 2200 μF 50 WV C054 2200 μF 50 WV C055 2200 μF 50 WV C056 1000 μF 50 WV C057 0.033 μF ±10% C059 0.068 μF ±10% C059 0.068 μF ±10% C060 0.068 μF ±10% S1 Selector Switch Y-4-10-4 (110415) S2 Speaker Selector Switch Y-1-4-4 (117017) S4 Tape Monitor (1) Switch <	R067	100kΩ	
R070	R068	100kΩ	
R071	R069	820kΩ	
R072 R073 R074 R075 R076 R076 R077 S06Ω R077 S06Ω R078 R079 R079 R079 R079 R079 R079 R079 R079	R070		
R073	R07 1	l	
R074 R075 330 Ω R076 R076 R077 560Ω R077 560Ω R078 560Ω R079 $18 \Omega \pm 10\%$ IW Metal Film Resistor 560Ω R079 $18 \Omega \pm 10\%$ IW Metal Film Resistor 560Ω R079 $18 \Omega \pm 10\%$ IW Metal Film Resistor 560Ω R079 $18 \Omega \pm 10\%$ IW Metal Film Resistor 560Ω R079 $18 \Omega \pm 10\%$ IW Metal Film Resistor 560Ω R079 $18 \Omega \pm 10\%$ IW Metal Film Resistor 560Ω R079 $18 \Omega \pm 10\%$ IW Carbon Resistor 560Ω PV PV Carbon Resistor 560Ω PV	R072		
R075 330 Ω R076 330 Ω R077 560 Ω $\pm 10\%$ IW Metal Film Resistor R078 560 Ω $\pm 10\%$ IW Metal Film Resistor R079 $18Ω \pm 10\%$ IW Carbon Resistor VR703, 704 $250kΩ(B) \times 2$ Volume, Variable Resistor C051 $0.04μF$ -20% C052 $0.04μF$ -20% C053 $2200μF$ 50 WV Electrolytic Capacitor C054 $2200μF$ 50 WV Capacitor C055 $2200μF$ 50 WV Capacitor C056 $1000μF$ 50 WV Capacitor C057 $0.033μF$ $\pm 10\%$ 600WV Capacitor C059 $0.068μF$ $\pm 10\%$ 600WV Capacitor C059 $0.068μF$ $\pm 10\%$ 400WV Capacitor TR051~054 $25D260$ or Capacitor (030825-1) S2 Speaker Selector Switch Y-4-10-4 (110415) S2 Speaker Selector Switch Y-1-4-4 (110121) S3 Tape Monitor (1) Switch (117017) S4 Tape Monitor (2) Switch (117017) S5 Mode Switch (117017) S6) +10% 2W Cem	ent Resistor
R076 330 Ω) R077 560 Ω) $\pm 10\%$ IW Metal Film Resistor R078 560Ω) $\pm 10\%$ I/4W Carbon Resistor VR703, 704 $\pm 250k \Omega(B) \times 2$ Volume, Variable Resistor C051 $0.04 \mu F$ $+80\%$ 25W Ceramic Capacitor C052 $0.04 \mu F$ -20% 25W Ceramic Capacitor C053 $2200 \mu F$ 50 WV Electrolytic Capacitor C054 $2200 \mu F$ 50 WV Capacitor C055 $2200 \mu F$ 50 WV Capacitor C056 $1000 \mu F$ 50 WV Capacitor C057 $0.033 \mu F$ 50% 600WV 50% Cose C059 $0.068 \mu F$ 50% 400WV 50% Cose C060 $0.068 \mu F$ 50% 400WV 50% Cose TR051~054 $25D260$ or $25D$	R074	0.511	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	_		
R078 560 Ω \pm 10% TW Metal Film Resistor VR703, 704 \pm 10% \pm 4W Carbon Resistor VR703, 704 \pm 250k Ω(B) × 2 Volume, Variable Resistor C051 \pm 0.04 μF \pm 20% \pm 25W Ceramic Capacitor C052 \pm 200 μF \pm 50 WV Electrolytic C054 \pm 2200 μF \pm 50 WV Capacitor C055 \pm 2200 μF \pm 50 WV Capacitor C056 \pm 1000 μF \pm 50 WV Capacitor C057 \pm 10% 600WV Capacitor C058 \pm 10% 600WV Capacitor C059 \pm 10% 400WV Capacitor TR051~054 \pm 10% 400WV Capacitor S1 Selector Switch Y-4-10-4 Capacitor S2 Speaker Selector Switch Y-1-4-4 Capacitor S2 Speaker Selector Switch Y-1-4-4 Capacitor S3 Tape Monitor (1) Switch Capacitor S4 Tape Monitor (2) Switch Capacitor S5 Mode Switch Capacitor S6 Loudness Switch Capacitor S7 High Filter Switch Capacitor (117017)<	_		
No.		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	al Film Resistor
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	_		non Parietor
Cos1 Cos2 Cos2 Cos3 Cos4 Cos4 Cos4 Cos5 Cos6 Cos6 Cos6 Cos7 Cos7 Cos8 Cos8 Cos9 Cos9 Cos9 Cos9 Cos9 Cos9 Cos9 Cos9			
Casz Coss Coss Coss Coss Coss Coss Coss Co		0.045)	e Kesistor
Coss		1 1 3 1 2500 Cerd	amic Capacitor
Cost Cost Cost Cost Cost Cost Cost Cost		• •	actrolytic
Coss 2200 μF 80 WV Electrolytic Coss 1000 μF 50 WV Capacitor Coss 0.033 μF 0.0047 μF ±10% 600WV Coss 0.068 μF ±10% 400WV Coss Coss 0.068 μF ±10% 400WV Coss		2200 (F) 50 WV	Capacitor
C056 C057 C058 C059 C060 1000 μF 0.0047 μF 0.0047 μF 0.068 μ			Electrolytic
Coss 0.0047 µF ±10% 800WV Coss 0.068 µF ±10% 400WV Oil Capacitor Coso Coso Coso Exercise Exercise Coso		·}	
Coss Cos9 0.0047 μr of 0.068 μr of Cose 0.068 μr of Cose Oil Capacitor TR051~054 2SD260 or 2SC494 (R, Y, BL) (0305220,1,2) S1 Selector Switch Y-4-10-4 (110415) (110415) S2 Speaker Selector Switch Y-1-4-4 (110121) (117017) S3 Tape Monitor (1) Switch (117017) S4 Tape Monitor (2) Switch (117017) S5 Mode Switch (117017) S6 Loudness Switch (117017) S7 High Filter Switch (117017) S8 Antenna Att. Switch (117017) S9 Muting Switch (117017) S10 Power Switch (113016) J001 DIN Connector (243004) J002 Headphones Jack (243007-1) J003 Multi Connector (242002) M001 Tuning Meter (090020-1) PT001 Power Transformer 400-5384 (400067)	C057	0.033 µF) + 10 % (00) A/V	
Coss Coss Coss Coss Coss Coss Coss Coss	Co58	$0.004/\mu r$	0.1.0
TR051~054 2SD260 or (030825-1) 2SC494 (R, Y, BL) (0305220,1,2) S1 Selector Switch Y-4-10-4 (110415) S2 Speaker Selector Switch Y-1-4-4 (110121) S3 Tape Monitor (1) Switch (117017) S4 Tape Monitor (2) Switch (117017) S5 Mode Switch (117017) S6 Loudness Switch (117017) S7 High Filter Switch (117017) S8 Antenna Att. Switch (117017) S9 Muting Switch (117017) S10 Power Switch (113016) J001 DIN Connector (243004) J002 Headphones Jack (243007-1) J003 Multi Connector (242002) M001 Tuning Meter (090020-1) PT001 Power Transformer 400-5384 (400067)	C059	+10% 400WV	Oil Capacitor
S1 Selector Switch Y-4-10-4 (110415) S2 Speaker Selector Switch Y-1-4-4 (110121) S3 Tape Monitor (1) Switch (117017) S4 Tape Monitor (2) Switch (117017) S5 Mode Switch (117017) S6 Loudness Switch (117017) S7 High Filter Switch (117017) S8 Antenna Att. Switch (117017) S9 Muting Switch (117017) S10 Power Switch (113016) J001 DIN Connector (243004) J002 Headphones Jack (243007-1) J003 Multi Connector (242002) M001 Tuning Meter (090020-1) PT001 Power Transformer 400-5384 (400067)	C060	0.068μF) = 1070 100111)	
S2 Speaker Selector Switch Y-1-4-4 (110121) S3 Tape Monitor (1) Switch (117017) S4 Tape Monitor (2) Switch (117017) S5 Mode Switch (117017) S6 Loudness Switch (117017) S7 High Filter Switch (117017) S8 Antenna Att. Switch (111009) S9 Muting Switch (117017) S10 Power Switch (113016) Joo1 DIN Connector (243004) Headphones Jack (243007-1) J003 Multi Connector (242002) M001 Tuning Meter (090020-1) PT001 Power Transformer 400-5384 (400067)	TR051~054		
S3 Tape Monitor (1) Switch (117017) S4 Tape Monitor (2) Switch (117017) S5 Mode Switch (117017) S6 Loudness Switch (117017) S7 High Filter Switch (117017) S8 Antenna Att. Switch (111009) S9 Muting Switch (117017) S10 Power Switch (113016) J001 DIN Connector (243004) J002 Headphones Jack (243007-1) J003 Multi Connector (242002) M001 Tuning Meter (090020-1) PT001 Power Transformer 400-5384 (400067)	Sı	Selector Switch Y-4-10-4	(110415)
S4 Tape Monitor (2) Switch (117017) S5 Mode Switch (117017) S6 Loudness Switch (117017) S7 High Filter Switch (117017) S8 Antenna Att. Switch (111009) S9 Muting Switch (117017) S10 Power Switch (113016) J001 DIN Connector (243004) J002 Headphones Jack (243007-1) J003 Multi Connector (242002) M001 Tuning Meter (090020-1) PT001 Power Transformer 400-5384 (400067)	\$2	l '	
S5 Mode Switch (117017) S6 Loudness Switch (117017) S7 High Filter Switch (117017) S8 Antenna Att. Switch (111009) S9 Muting Switch (117017) S10 Power Switch (113016) J001 DIN Connector (243004) J002 Headphones Jack (243007-1) J003 Multi Connector (242002) M001 Tuning Meter (090020-1) PT001 Power Transformer 400-5384 (400067)		, , , , ,	
S6 Loudness Switch (117017) S7 High Filter Switch (117017) S8 Antenna Att. Switch (111009) S9 Muting Switch (117017) S10 Power Switch (113016) J001 DIN Connector (243004) J002 Headphones Jack (243007-1) J003 Multi Connector (242002) M001 Tuning Meter (090020-1) PT001 Power Transformer 400-5384 (400067)			: : : : : : : : : : : : : : : : : : :
S7 High Filter Switch (117017) S8 Antenna Att. Switch (111009) S9 Muting Switch (117017) S10 Power Switch (113016) J001 DIN Connector (243004) J002 Headphones Jack (243007-1) J003 Multi Connector (242002) M001 Tuning Meter (090020-1) PT001 Power Transformer 400-5384 (400067)			
S8 Antenna Att. Switch (111009) S9 Muting Switch (117017) S10 Power Switch (113016) J001 DIN Connector (243004) J002 Headphones Jack (243007-1) J003 Multi Connector (242002) M001 Tuning Meter (090020-1) PT001 Power Transformer 400-5384 (400067)			
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J002 Headphones Jack (243007-1) J003 Multi Connector (242002) M001 Tuning Meter (090020-1) PT001 Power Transformer 400-5384 (400067)	510	rower Switch	(113016)
Jo03 Multi Connector (242002) Mo01 Tuning Meter (090020-1) PT001 Power Transformer 400-5384 (400067)			, ,
Mool Tuning Meter (090020-1) PTool Power Transformer 400-5384 (400067)		· '	•
PT ₀₀₁ Power Transformer 400-5384 (400067)	J003	Multi Connector	(242002)
	M001	Tuning Meter	(090020-1)
041017- 10)	PT001	Power Transformer	400-5384 (400067)
PU(0) Voltage Selector (24101/~17)	PU001	Voltage Selector	(241017~19)

x	Y	
F001	3A Fuse (100∼127V)	(043004-2)
	2A Fuse (220~250V)	(043003-2)
F002,003	2.5A Quick Acting Fuse	(043001-1)
CO001	AC Outlet	(245001)
PL001	7V 200mA Phono Indicator Lamp	(040015-4)
PL002~007	6.3V 250mA Pilot Lamp F Type	(042002)
PL008	7V 200mA AUX Indicator Lamp	(040015-5)
PL009	5V 60mA Needle Indicator	(040010-1)
PLoto	6V 100mA Stereo Indicator Lamp	(040016)
T001	$75\Omega:300\Omega$ High Frequency Transformer	
		(429002-1)
T002	220μH AM Bar Antenna	(420031)
Looi	150 μH Ferri Inductor	(490008)
L002	1 µH Micro Inductor	(4900140)

